

BI ET AL.,
"Broadcast/Multicast Services In Wireless
Communications Networks"
Atty. Docket No. CS23442RL

Appl. No. 10/749,021
Confirm. No. 8438
Examiner P. Desir
Art Unit 2681

1. (Original) A method in wireless communications network infrastructure, the method comprising:

transmitting first layer broadcast/multicast service content information on a first channel;

transmitting second layer broadcast/multicast service content information on a second channel,

at least one of the first and second channels a shared broadcast channel,

the first layer broadcast/multicast service content information related to the second layer broadcast/multicast service content information,

at least one of the first and second layers capable of being decoded and used without the other of the first and second layers.

2. (Original) The method of Claim 1, transmitting the first and second layer broadcast/multicast service content information from a common source.

3. (Original) The method of Claim 1, transmitting a message identifying at least one of the first and second channels before transmitting the first and second layer broadcast/multicast service content information.

4. (Original) The method of Claim 1,
transmitting the first layer broadcast/multicast service content information and transmitting the second layer broadcast/multicast service content information substantially simultaneously.

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5. (Original) The method of Claim 1,

transmitting the first layer broadcast/multicast service content information and transmitting the second layer broadcast/multicast service content information with sufficient temporal proximity to enable substantially synchronized integration of the first and second layer broadcast/multicast service content information by a recipient.

6. (Original) The method of Claim 1,

transmitting the first layer broadcast/multicast service content information on the first channel by transmitting the first layer broadcast/multicast service content information on the shared channel;

transmitting the second layer broadcast/multicast service content information on the second channel by transmitting the second layer broadcast/multicast service content information on a dedicated channel.

7. (Currently Amended) The method of Claim 4, transmitting third layer broadcast/multicast service content information on a second shared channel, the third layer broadcast/multicast service content information related to the first and second layer content information.

8. (Original) The method of Claim 1, transmitting reliability information on a third channel, the reliability information for decoding at least one of the first and second layer broadcast/multicast service content information.

9. (Original) The method of Claim 1,

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the first layer broadcast/multicast service content information is baseline broadcast/multicast service information transmitted on a shared broadcast channel;

the second layer broadcast/multicast service content information is baseline broadcast/multicast service enhancement information transmitted on one of a second shared broadcast channel or a dedicated channel.

10. (Original) The method of Claim 1,
encrypting at least one of the first and second layer broadcast/multicast service content information before transmitting.

11. (Original) The method of Claim 1, encrypting the first and second layer broadcast/multicast service content information using different encryption keys before transmitting.

12. (Original) The method of Claim 2,
transmitting the first layer broadcast/multicast service content information using a first transmission parameter;
transmitting the second layer broadcast/multicast service content information using a second transmission parameter different than the first transmission parameter.

13. (Original) A method in wireless communications network, the method comprising:
transmitting content and reliability information on a first channel;
transmitting additional reliability information for the content on a second channel,

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the reliability and additional reliability information for decoding
the content.

14. (Original) The method of Claim 13, transmitting the content,
the reliability information and the additional reliability information with
sufficient temporally proximity to enable decoding of the content, by a
recipient, using the reliability and additional reliability information.

15. (Original) The method of Claim 13,
transmitting the content and reliability information on the first
channel includes transmitting the broadcast/multicast service content and
reliability information on a shared broadcast channel,
transmitting additional broadcast/multicast service content on a
dedicated channel,
the broadcast/multicast service content and reliability information
and the additional broadcast/multicast service content transmitted at
substantially the same time.

16. (Original) The method of Claim 13,
transmitting the content and reliability information on a shared
channel;
transmitting additional reliability information for the content on a
dedicated channel.

17. (Original) The method of Claim 13,

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transmitting the content and reliability information on a shared channel;

transmitting additional reliability information for the content on another shared channel.

18. (Original) The method of Claim 13,
transmitting the content and reliability information using a first transmission parameter;

transmitting the additional reliability information using a second transmission parameter different than the first transmission parameter.

19. (Original) The method of Claim 13,
transmitting the content and reliability information on a first channel substantially simultaneously with transmitting the additional reliability information for the content on the second channel.

20. (Original) A method in wireless communications device, the method comprising:

receiving a message identifying a channel on which content will be transmitted;
receiving first layer content information on a first channel;
receiving second layer content information on a second channel,
at least one of the first and second channels identified in the message.

21. (Original) The method of Claim 20, combining the first and second layer content at the wireless subscriber device.

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22. (Original) The method of Claim 20,
the wireless communications device is a broadcast/multicast
subscriber device,

receiving first layer content information includes receiving first
layer broadcast/multicast content information;

receiving second layer content information includes receiving
second layer broadcast/multicast content information.

23. (Original) The method of Claim 22,
receiving first layer content information on a first channel includes
receiving the first layer content information on a first broadcast channel.

24. (Original) The method of Claim 20,
the first and second layer content information is encrypted,
decrypting the first layer content information with a first key,
decrypting the second layer content information with a second
key that is different than the first key.

25. (Original) The method of Claim 20,
at least one of the first and second layer content information is
encrypted,
receiving at least one decryption key for the at least one decrypted
first and second layer content information,
decrypting the at least one decrypted first and second layer
content information with the decryption key.

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26. (Original) A method in broadcast/multicast subscriber device,
the method comprising:

receiving first layer content information on a first channel;
receiving second layer content information on a second channel,
at least one of the first and second channels a shared broadcast
channel,

receiving the first layer content information and the second layer
content information substantially simultaneously,

integrating the first and second layer content information at the
wireless communications device.